The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1   1 (Previously presented). A method of filtering a datastream containing
2   transport table sections, said method comprising steps of
3   determining presence of transport table sections in a payload portion of
4   a packet of said datastream from a table identification (TID) field in a header
5   of said packet,
6   filtering a portion of said transport table sections in accordance with a
7   mask which defines a filter function and a logic state of a not match bit to
8   provide a compare result,
9   selecting a next mask and a portion of said transport table sections in
10 accordance with a filter ID, and
11   combining compare result values in accordance with a logic values of
12 not match bits in a not match indication register,
13   whereby an arbitrary length of said transport table sections are filtered
14 by an arbitrary number of filters having arbitrary filter functions.

1   2 (Original) A method as recited in claim 1, wherein said filter ID is
2   implemented in a control word.

1   3 (Original). A method as recited in claim 2, wherein said Filter ID includes a
2   section filter ID and a next filter ID.

1   4 (Previously presented). A method as recited in claim 1, wherein said

2   combining step includes ANDing or ORing compare result values of a bit or

3   over a group of bits in accordance with logic values of not match bits

4   corresponding to said bit or group of bits.

1   5 (Original). A method as recited in claim 4, wherein said combining step

2   further includes the step of

3   accumulating a matchword over a plurality of blocks of filtered data.

1   6 (Original). A method as recited in claim 5, wherein said step of

2   accumulating a matchword is performed by

3   ANDing a current matchword bit with a corresponding bit of a

4   previous matchword if the filtering applied to the current block is positive or

5   mixed filtering, and

6   ORing a current matchword bit with a corresponding bit of a previous

7   matchword if the filtering applied to the current block is negative filtering

8   in accordance with said contents of said not match indication register.

1   7 (Previously presented). A method as recited in claim 5, wherein said step of

2   accumulating a matchword is performed in accordance with logic functions

3   specified by at least one extra bit.

1   8 (Original). A method of filtering a datastream, said method comprising

2   steps of

3   filtering a portion of said datastream in accordance with a logic state of

4   a not match bit and a Filter ID to provide a compare result, and

5   combining compare result values in accordance with a logic values of

6   not match bits in a not match indication register corresponding to said portion,

7   whereby an arbitrary length of said datastream is filtered by an

8   arbitrary filter function.

1   9 (Original). A method as recited in claim 8, wherein said filter ID is

2   implemented in a control word.

1   10 (Original). A method as recited in claim 9, wherein said Filter ID includes

2   a section filter ID and a next filter ID.

1   11 (Previously presented). A method as recited in claim 8, wherein said

2   combining step includes ANDing or ORing compare result values of a bit or

3   over a group of bits in accordance with logic values of not match bits

4   corresponding to said bit or group of bits.

1   12 (Original). A method as recited in claim 11, wherein said combining step

2   further includes the step of

3   accumulating a matchword over a plurality of blocks of filtered data.

1   13 (Original). A method as recited in claim 12, wherein said step of

2   accumulating a matchword is performed by

3   ANDing a current matchword bit with a corresponding bit of a

4   previous matchword if the filtering applied to the current block is positive or

5   mixed filtering, and

6   ORing a current matchword bit with a corresponding bit of a previous

7   matchword if the filtering applied to the current block is negative filtering

8   in accordance with said contents of said not match indication register.

1   14 (Previously presented). A method as recited in claim 12, wherein said step

2   of accumulating a matchword is performed in accordance with logic functions

3   specified by at least one extra bit.